

### **ABSTRACT**

A method for analyzing the exhaust emissions of large industrial engines that: produces emission information in real time and permits the generation of test results immediately after an emission test is conducted, is disclosed. The method includes the real time calculation of exhaust volumetric flow rate from fuel gas flowrate and the use of real time intake manifold conditions to determine engine load from an engine load curve. A portable apparatus for performing the method, comprising a programmed computer, data collection buffer, computer readable database and display device is also disclosed.